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1          .TITLE NAME1
2
3          // REDAC SOFTWARE LIMITED
4
5          /1 SUITE      : P.C.B. LAYOUT
6          /2 PROGRAM TITLE : REDAL 3 MARK 5
7          /3 ROUTINE TITLE : NAME1
8
9          // THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE
10         // CUSTOMER; THE CONTENTS OR DETAILS OF ITS OPERATION MAY
11         // ONLY BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO
12         // REQUIRE A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT
13         // THEIR JOB. DISCLOSURE TO ANY OTHER PERSON MUST HAVE PRIOR
14         // AUTHORISATION FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.
15
16         /4 AUTHOR:
17         /5 DATE : DEC 1974
18
19         /6 PURPOSE: READ A COMPONENT NAME OR COMPONENT PREFIX
20         // FOLLOWED BY *, **, !, OR !!. ALSO CHECKS TO SEE IF
21         // COMPONENT CAN BE FOUND AND WILL FIX OR UNFIX THE
22         // COMPONENT.
23
24         /7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS
25         // CALL NAME1 COMPO (1), EOCOMP)
26         // COMPO (1) - ADDRESS OF COMPONENTS ARRAY
27         // EOCOMP - PTR TO FIRST FREE WORD IN COMPS ARRAY
28         // AC IF THE COMPONENT IS FOUND RETURNS WITH THE COMPONENT
29         //      POINTER
30         //      IF THE COMPONENT IS NOT FOUND RETURNS WITH ZERO
31         //      AND POINTER TO THE NAME IN THE MQ
32         //      IF A !, !!, * OR * IS TYPED RETURNS WITH -1
33
34         /8 I/O DEVICES AND FUNCTIONS
35         // -2 READS CHARS FROM TT
36
37         /9 REGISTERS USED AC, MQ
38
39         /12 GLOBALS
40         .GLOBL .DA, NAME1
41
42         .EJECT
```

43 00000 R 740040 A NAME1 XX
44 00001 R 120307 E JMS*.DA
45 00002 R 600005 R JMP .+3
46 00003 R 000000 A COMPAD 0
47 00004 R 000000 A EOCOMP 0
48 00005 R 140306 R DZM PRFLG# /NON-ZERO IF FIXING OR UNFIXING BY PREFIX
49 00006 R 140300 R DZM COLL
50 00007 R 140301 R DZM COLL+1 /COLLATE WORDS
51 00010 R 200310 R LAC (JMP DIFF
52 00011 R 040214 R DAC STOP1
53 00012 R 200311 R LAC (SZA
54 00013 R 040220 R DAC STOP2
55 00014 R 200312 R LAC (100402
56 00015 R 040272 R DAC NAME
57 00016 R 200313 R LAC (010040
58 00017 R 040273 R DAC NAME+1
59 00020 R 000776 A *G START .INIT -2,0,START
00020 R 000776 A *G CAL+0*1000 -2&777
00021 R 000001 A *G 1
00022 R 000020 R *G START+0
00023 R 000000 A *G 0
60 00024 R 777775 A LAW -3
61 00025 R 040276 R DAC CNTR
62 00026 R 100260 R FIRST JMS IN /READ A CHAR
63 00027 R 540314 R SAD (43
64 00030 R 440306 R ISZ PRFLG /A # FOUND
65 00031 R 540315 R SAD (41
66 00032 R 741000 A SKP
67 00033 R 600041 R JMP .+6
68 00034 R 440306 R ISZ PRFLG
69 00035 R 200316 R LAC (JMP DIFFA /A ! FOUND
70 00036 R 040214 R DAC STOP1
71 00037 R 200317 R LAC (SNA
72 00040 R 040220 R DAC STOP2
73 00041 R 723677 A AAC -101
74 00042 R 741100 A SPA
75 00043 R 600026 R JMP FIRST /NOT AN ALPHA
76 00044 R 723746 A AAC -32
77 00045 R 740100 A SMA
78 00046 R 600026 R JMP FIRST /DITTO
79 00047 R 723133 A AAC 133
80 00050 R 100076 R LUP JMS PACK
81 00051 R 100260 R JMS IN
82 00052 R 540320 R SAD (40
83 00053 R 600065 R JMP OUT
84 00054 R 540321 R SAD (175 /ALT MODE
85 00055 R 600065 R JMP OUT
86 00056 R 540322 R SAD (15 /C/R
87 00057 R 600065 R JMP OUT
88 00060 R 540323 R SAD (12
89 00061 R 600065 R JMP OUT
90 00062 R 440276 R ISZ CNTR

91 00063 R 600050 R JMP LUP
92 00064 R 100076 R JMS PACK
93 00065 R 200273 R OUT LAC NAME+1
94 00066 R 652000 A LMQ
95 00067 R 200272 R LAC NAME
96 00070 R 744000 A CLL
97 00071 R 640610 A LLS 10
98 00072 R 040272 R DAC NAME
99 00073 R 641002 A LACQ
100 00074 R 040273 R DAC NAME+1
101 00075 R 600122 R JMP OUTTT
102 /
103 /
104 /
105 /
106 00076 R 740040 A PACK XX
107 00077 R 040277 R DAC LETTER
108 00100 R 200301 R LAC COLL+1
109 00101 R 652000 A LMQ
110 00102 R 200300 R LAC COLL
111 00103 R 744002 A STL
112 00104 R 640507 A LRS 7
113 00105 R 040300 R DAC COLL /COLLATE WORDS SET UP FOR
114 00106 R 641002 A LACQ
115 00107 R 040301 R DAC COLL+1 /FIXING OR UNFIXING
116 00110 R 200273 R LAC NAME+1
117 00111 R 652000 A LMQ
118 00112 R 744000 A CLL
119 00113 R 200272 R LAC NAME
120 00114 R 640607 A SHIFT LLS 7
121 00115 R 040272 R DAC NAME
122 00116 R 641002 A LACQ
123 00117 R 340277 R TAD LETTER
124 00120 R 040273 R DAC NAME+1
125 00121 R 620076 R JMP* PACK
126 /
127 /
128 /
129 /
130 /
131 / NOW SCAN COMPS TO FIND NAME
132 00122 R 200003 R OUTTT LAC COMPAD
133 00123 R 040274 R DAC SCAN
134 00124 R 360004 R TAD* EOCOMP
135 00125 R 723777 A AAC -1
136 00126 R 040275 R DAC ENDCOM
137 00127 R 200306 R LAC PRFLG
138 00130 R 740200 A SZA
139 00131 R 600166 R JMP PREFIX
140 00132 R 200274 R LOOPY LAC SCAN
141 00133 R 540275 R SAD ENDCOM
142 00134 R 600162 R JMP ERROR /NAME NOT FOUND

143 00135 R 440274 R ISZ SCAN
144 00136 R 220274 R LAC* SCAN
145 00137 R 440274 R ISZ SCAN
146 00140 R 540272 R SAD NAME
147 00141 R 741000 A SKP /1ST WORD SAME
148 00142 R 600147 R JMP .+5
149 00143 R 220274 R LAC* SCAN
150 00144 R 500324 R AND (777400
151 00145 R 540273 R SAD NAME+1
152 00146 R 600154 R JMP FOUND /FOUND COMP
153 00147 R 440274 R ISZ SCAN
154 00150 R 200274 R DELT LAC SCAN
155 00151 R 723003 A AAC 3
156 00152 R 040274 R DAC SCAN
157 00153 R 600132 R JMP LOOPY /TRY NEXT COMP
158 00154 R 440274 R FOUND ISZ SCAN
159 00155 R 220274 R LAC* SCAN
160 00156 R 741200 A SNA
161 00157 R 600150 R JMP DELT /DELETED COMPONENT
162 00160 R 200274 R LAC SCAN
163 00161 R 620000 R JMP* NAME1
164 00162 R 200325 R ERROR LAC (NAME
165 00163 R 652000 A LMQ
166 00164 R 750000 A CLA
167 00165 R 620000 R JMP* NAME1
168 /
169 00166 R 200306 R PREFIX LAC PRFLG
170 00167 R 640713 A ALS 13
171 00170 R 500326 R AND (4000
172 00171 R 040306 R DAC PRFLG /FIX OR UNFIX BIT
173 00172 R 200325 R LAC (NAME
174 00173 R 100236 R JMS LJUST /LEFT JUSTIFY NAME THAT HAS BEEN INPUT FORM TP.
175 00174 R 200302 R LAC BUFF
176 00175 R 040272 R DAC NAME
177 00176 R 200303 R LAC BUFF+1
178 00177 R 040273 R DAC NAME+1 /LEFT JUST. NAME IN NAME AND NAME+1
179 00200 R 200274 R CLUPP LAC SCAN
180 00201 R 540275 R SAD ENDCOM
181 00202 R 600234 R JMP DUNN /COMPONENTS SCANNED
182 00203 R 440274 R ISZ SCAN /TO FIST NAMEWORD
183 00204 R 200274 R LAC SCAN
184 00205 R 440274 R ISZ SCAN
185 00206 R 440274 R ISZ SCAN /TO WORD CONTAINING FIXING BIT
186 00207 R 100236 R JMS LJUST /GETS NAME LEFT JUST. IN BUFF AND BUFF+1
187 00210 R 200302 R LAC BUFF
188 00211 R 240272 R XOR NAME
189 00212 R 500300 R AND COLL
190 00213 R 740200 A SZA /FIRST PARTS THE SAME
191 00214 R 740040 A STOP1 XX /JMP DIFF OR JMP DIFFA
192 00215 R 200303 R LAC BUFF+1
193 00216 R 240273 R XOR NAME+1
194 00217 R 500301 R AND COLL+1

195 00220 R 740040 A STOPZXX /SZA ~~IP~~ *.SNA IF !.
196 00221 R 600230 R JMP DIFF
197 00222 R 220274 R DIFFA LAC* SCAN
198 00223 R 741200 A SNA
199 00224 R 600230 R JMP DIFF /COMPONENT DELETED
200 00225 R 500327 R AND (773777
201 00226 R 340306 R TAD PRFLG
202 00227 R 060274 R DAC* SCAN /FIXED OR UNFIXED
203 00230 R 200274 R DIFF LAC SCAN
204 00231 R 723003 A AAC 3
205 00232 R 040274 R DAC SCAN /UPDATED TO NEXT COMP.
206 00233 R 600200 R JMP CLUPP
207 00234 R 777777 A DUNN LAW -1 /VALUE AFTER PREFIX FIX OF UNFIX
208 00235 R 620000 R JMP* NAME1 /EXIT
209 /
210 /
211 /SUBROUTINE FOR LEFT JUSTIFYING TWO WORDS POINTED TO
212 /BY ACC. ON ENTRY. RESULT IN BUFF AND BUFF+1.
213 00236 R 740040 A LJST XX
214 00237 R 040276 R DAC CNTR /USED AS POINTER TO FIRST WORD
215 00240 R 723001 A AAC 1
216 00241 R 040277 R DAC LETTER /TO SECOND WORD
217 00242 R 220277 R LAC* LETTER
218 00243 R 652000 A LMQ
219 00244 R 220276 R LAC* CNTR
220 00245 R 040302 R BAK DAC BUFF
221 00246 R 641002 A LACQ
222 00247 R 040303 R DAC BUFF+1
223 00250 R 200302 R LAC BUFF
224 00251 R 500330 R AND (774000
225 00252 R 240331 R XOR (200000
226 00253 R 740200 A SZA /FIRST CHAR. IS A SPACE
227 00254 R 620236 R JMP* LJST /EXIT
228 00255 R 200302 R LAC BUFF
229 00256 R 640607 A LLS 7
230 00257 R 600245 R JMP BAK
231 /
232 /
233 /
234 /
235 /IN READS CHARS FROM KEYBOARD
236 /
237 /
238 00260 R 740040 A IN XX
239 .READ -2,3,BUFF,3
00261 R 003776 A *G CAL+3*1000 -2&777
00262 R 000010 A *G 10
00263 R 000302 R *G BUFF
00264 R 777775 A *G .DEC
00265 R 000776 A *G -3
00266 R 000776 A *G .WAIT -2
00267 R 000776 A *G CAL -2&777

00266 R 000012 A *G 12
241 00267 R 200304 R LAC BUFF+2
242 00270 R 500332 R AND (177
243 00271 R 620260 R JMP* IN
244 /
245 /
246 /
247 00272 R 000000 A NAME 0
248 00273 R 000000 A 0
249 00274 R 000000 A SCAN 0
250 00275 R 000000 A ENDCOM
251 00276 R 000000 A CNTR
252 00277 R 000000 A LETTER
253 00300 R 000000 A COLL 0
254 00301 R 000000 A 0
255 00302 R 000000 A BUFF 0
256 00303 R 000000 A 0
257 00304 R 000000 A 0
258 00305 R 000000 A JUMP 0
259 000000 A .END
00307 R 000307 E *E
00310 R 600230 R *L
00311 R 740200 A *L
00312 R 100402 A *L
00313 R 010040 A *L
00314 R 000043 A *L
00315 R 000041 A *L
00316 R 600222 R *L
00317 R 741200 A *L
00320 R 000040 A *L
00321 R 000175 A *L
00322 R 000015 A *L
00323 R 000012 A *L
00324 R 777400 A *L
00325 R 000272 R *L
00326 R 004000 A *L
00327 R 773777 A *L
00330 R 774000 A *L
00331 R 200000 A *L
00332 R 000177 A *L

SIZE=00334 NO ERROR LINES

PAGE 7 NAME1 CROSS REFERENCE

BAK	00245	220*	230						
BUFF	00302	175	177	187	192	220	222	223	228
		239	241	255*					
CLUPP	00200	179*	206						
CNTR	00276	61	90	214	219	251*			
COLL	00300	49	50	108	110	113	115	189	194
		253*							
COMPAD	00003	46*	132						
DELT	00150	154*	161						
DIFF	00230	51	196	199	203*				
DIFFA	00222	69	197*						
DUNN	00234	181	207*						
ENDCOM	00275	136	141	180	250*				
EOCOMP	00004	47*	134						
ERROR	00162	142	164*						
FIRST	00026	62*	75	78					
FOUND	00154	152	158*						
IN	00260	62	81	238*	243				
JUMP	00305	258*							
LETTER	00277	107	123	216	217	252*			
LJUST	00236	174	186	213*	227				
LOOPY	00132	140*	157						
LUP	00050	80*	91						
NAME	00272	56	58	93	95	98	100	116	119
		121	124	146	151	164	173	176	178
		188	193	247*					
NAME1	00000	1	40	43*	163	167	208		
OUT	00065	83	85	87	89	93*			
OUTTT	00122	101	132*						
PACK	00076	88	92	106*	125				
PREFIX	00166	139	169*						
PRFLG	00306	48	64	68	137	169	172	201	
SCAN	00274	133	140	143	144	145	149	153	154
		156	158	159	162	179	182	183	184
		185	197	202	203	205	249*		
SHIFT	00114	120*							
START	00020	59*	59						
STOP1	00214	52	70	191*					
STOP2	00220	54	72	195*					
.DA	00307	40	44						